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| FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE<br>(REV. 7-2005)  |   | ATTORNEY'S DOCKET NUMBER<br>283234US2X PCT   |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>         DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>         CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>  |   | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><div style="font-size: 1.5em; font-weight: bold; text-align: center;">10/560360</div> |
| INTERNATIONAL APPLICATION NO.<br>PCT/JP04/08130  | INTERNATIONAL FILING DATE<br>10 June 2004 | PRIORITY DATE CLAIMED<br>10 June 2003 earliest   |
| TITLE OF INVENTION<br>METAL COMPONENT, TURBINE COMPONENT, GAS TURBINE ENGINE, SURFACE PROCESSING METHOD, AND<br>STEAM TURBINE ENGINE   |   |  |
| APPLICANT(S) FOR DO/EO/US<br>Hiroyuki OCHIAI, et al.   |   |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |   |  |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).           <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</li> <li>11. <input type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409).</li> <li>12. <input checked="" type="checkbox"/> A copy of the International Search Report (PCT/ISA/210).</li> </ol> <p>Items 13 to 23 below concern document(s) or information included:</p> <ol style="list-style-type: none"> <li>13. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>14. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>15. <input type="checkbox"/> A <b>FIRST</b> preliminary amendment.</li> <li>16. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>17. <input type="checkbox"/> A substitute specification.</li> <li>18. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</li> <li>20. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>21. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).</li> <li>22. <input type="checkbox"/> Express Mail Label No.</li> </ol> |   |  |

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|   |   |  |  |      |              |           |   |            |                    |         |   |            |          |  |
|---|---|--|--|------|--------------|-----------|---|------------|--------------------|---------|---|------------|----------|--|
| U.S. APPLICATION NO (if known, see 37 CFR 1.5)<br><div style="font-size: 24pt; font-weight: bold; text-align: center;">10/560360</div>  | INTERNATIONAL APPLICATION NO.<br><div style="font-weight: bold; text-align: center;">PCT/JP04/08130</div> | ATTORNEY'S DOCKET NUMBER<br><div style="font-weight: bold; text-align: center;">283234US2X PCT</div> |  |      |              |           |   |            |                    |         |   |            |          |  |
| 23. Other items or information:<br><br>Application Data Sheet/Notice of Priority/Drawings (8 sheets)/<br>PCT/IB/304/PCT/IB/308/Request for Consideration  |   |  |  |      |              |           |   |            |                    |         |   |            |          |  |
| The following fees have been submitted:   |   | CALCULATIONS    PTO USE  |  |      |              |           |   |            |                    |         |   |            |          |  |
| 24. <input checked="" type="checkbox"/> Basic national fee ..... \$300  | \$ 300.00   |  |  |      |              |           |   |            |                    |         |   |            |          |  |
| 25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))<br>If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article<br>as an International Searching Authority. .... \$0<br>All other situations. .... \$200  | \$ 200.00   |  |  |      |              |           |   |            |                    |         |   |            |          |  |
| 26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))<br>If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . . \$0<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the<br>as an International Searching Authority. .... \$100<br>International Search Report prepared by an ISA other than the US and provided to the<br>previously communicated to the US by the IB. .... \$400<br>All other situations. .... \$500      | \$ 400.00   |  |  |      |              |           |   |            |                    |         |   |            |          |  |
| <b>TOTAL OF 24, 25 and 26 =</b>   |   | \$ 900.00  |  |      |              |           |   |            |                    |         |   |            |          |  |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).<br>The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |   |  |  |      |              |           |   |            |                    |         |   |            |          |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Total Sheets</td> <td style="width: 20%;">Extra Sheets</td> <td style="width: 40%;">Number of each additional 50 or fraction thereof (round up to a whole)</td> <td style="width: 20%;">RATE</td> </tr> <tr> <td style="text-align: center;">- 100 =</td> <td style="text-align: center;">0 /50 =</td> <td style="text-align: center;">0</td> <td style="text-align: center;">x \$250.00</td> </tr> </table>  | Total Sheets  | Extra Sheets   | Number of each additional 50 or fraction thereof (round up to a whole) | RATE | - 100 =      | 0 /50 =   | 0 | x \$250.00 | \$ 0.00            |         |   |            |          |  |
| Total Sheets  | Extra Sheets  | Number of each additional 50 or fraction thereof (round up to a whole)                               | RATE   |      |              |           |   |            |                    |         |   |            |          |  |
| - 100 =   | 0 /50 =   | 0  | x \$250.00   |      |              |           |   |            |                    |         |   |            |          |  |
| Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).   |   | \$ 130.00  |  |      |              |           |   |            |                    |         |   |            |          |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">CLAIMS</td> <td style="width: 20%;">NUMBER FILED</td> <td style="width: 40%;">NUMBER EXTRA</td> <td style="width: 20%;">RATE</td> </tr> <tr> <td>Total claims</td> <td style="text-align: center;">21 - 20 =</td> <td style="text-align: center;">1</td> <td style="text-align: center;">x \$50.00</td> </tr> <tr> <td>Independent claims</td> <td style="text-align: center;">6 - 3 =</td> <td style="text-align: center;">3</td> <td style="text-align: center;">x \$200.00</td> </tr> </table> | CLAIMS  | NUMBER FILED   | NUMBER EXTRA   | RATE | Total claims | 21 - 20 = | 1 | x \$50.00  | Independent claims | 6 - 3 = | 3 | x \$200.00 | \$ 50.00 |  |
| CLAIMS  | NUMBER FILED  | NUMBER EXTRA   | RATE   |      |              |           |   |            |                    |         |   |            |          |  |
| Total claims  | 21 - 20 =   | 1  | x \$50.00  |      |              |           |   |            |                    |         |   |            |          |  |
| Independent claims  | 6 - 3 =   | 3  | x \$200.00   |      |              |           |   |            |                    |         |   |            |          |  |
| MULTIPLE DEPENDENT CLAIMS (if applicable) <input checked="" type="checkbox"/> + \$360.00  |   | \$ 360.00  |  |      |              |           |   |            |                    |         |   |            |          |  |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |   | \$ 2,040.00  |  |      |              |           |   |            |                    |         |   |            |          |  |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.  |   | \$ 0.00  |  |      |              |           |   |            |                    |         |   |            |          |  |
| <b>SUBTOTAL =</b>   |   | \$ 2,040.00  |  |      |              |           |   |            |                    |         |   |            |          |  |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).   |   | \$ 0.00  |  |      |              |           |   |            |                    |         |   |            |          |  |
| <b>TOTAL NATIONAL FEE =</b>   |   | \$ 2,040.00  |  |      |              |           |   |            |                    |         |   |            |          |  |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +   |   | \$ 0.00  |  |      |              |           |   |            |                    |         |   |            |          |  |
| <b>TOTAL FEES ENCLOSED =</b>  |   | \$ 2,040.00  |  |      |              |           |   |            |                    |         |   |            |          |  |
| Amount to be  |   | \$   |  |      |              |           |   |            |                    |         |   |            |          |  |
| Amount to be  |   | \$   |  |      |              |           |   |            |                    |         |   |            |          |  |

10/560360

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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- APR 9 Rec'd PCT/PTO 12 DEC 2005**
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- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.
- d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Customer Number  
22850

Surinder Sachar  
SIGNATURE

Marvin J. Spivak

NAME

24,913

REGISTRATION NUMBER

Dec. 12 2005

Surinder Sachar DATE  
Registration No. 34,423

IAP9 Rec'd PCT/PTO 12 DEC 2009

DOCKET NO.: 283234US2X PCT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Hiroyuki OCHIAI, et al.

SERIAL NO.: NEW U.S. PCT APPLICATION

FILED: HERewith

INTERNATIONAL APPLICATION NO.: PCT/JP04/08130

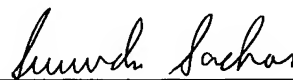
INTERNATIONAL FILING DATE: June 10, 2004

FOR: METAL COMPONENT, TURBINE COMPONENT, GAS TURBINE ENGINE,  
SURFACE PROCESSING METHOD, AND STEAM TURBINE ENGINE**REQUEST FOR CONSIDERATION OF DOCUMENTS  
CITED IN INTERNATIONAL SEARCH REPORT**Commissioner for Patents  
Alexandria, Virginia 22313

Sir:

In the matter of the above-identified application for patent, notice is hereby given that applicant(s) request that the Examiner consider the documents cited in the International Search Report according to MPEP §609 and so indicate by a statement in the first Office Action that the information has been considered. When the Form PCT/DO/EO/903 indicates both the search report and copies of the documents are present in the national stage file, there is no requirement for the applicant(s) to submit them (1156 O.G. 91 November 23, 1993).

Respectfully submitted,

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(OSMMN 08/03)